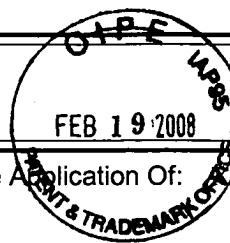


FEB 19 2008

**TRANSMITTAL LETTER**  
**(General - Patent Pending)**

 Docket No.  
 133697-0022

In Re Application Of: Liang LI et al.



Application No.	Filing Date	Examiner	Customer No.	Group Art Unit	Confirmation No.
10/567,413	February 3, 2006	Unknown	35684	Unknown	5182

**Title: THE PREPARATION METHOD OF OUTSIDE-IN POLY VINYLIDENE FLUORIDE HOLLOW FIBER MEMBRANE SPINNED UTILIZING A IMMERSION-COAGULATION METHOD AND THE PRODUCT THEREOF**

**COMMISSIONER FOR PATENTS:**

Transmitted herewith is:

**RESPONSE TO NOTIFICATION OF MISSING REQUIREMENTS UNDER 35 U.S.C. 371 IN THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)**

in the above identified application.

- No additional fee is required.
- A check in the amount of \_\_\_\_\_ is attached.
- The Director is hereby authorized to charge and credit Deposit Account No. 12-2136 as described below.
  - Charge the amount of \_\_\_\_\_
  - Credit any overpayment.
  - Charge any additional fee required.
- Payment by credit card. Form PTO-2038 is attached.

**WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.**

Signature

Michael S. Gzybowski

Dated: February 12, 2008

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to the "Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450" [37 CFR 1.8(a)] on

February 12, 2008

(Date)

Michael S. Gzybowski

Signature of Person Mailing Correspondence

Typed or Printed Name of Person Mailing Correspondence

CC:



PCT APPLICATION

*IN THE UNITED STATES PATENT AND TRADEMARK OFFICE*

*Attorney*  
Docket No.: 133697-0022

*Applicant:* Xiang LI et al

*Invention:* THE PREPARATION METHOD OF  
OUTSIDE-IN POLY VINYLIDENE  
FLUORIDE HOLLOW FIBER  
MEMBRANE SPINNED UTILIZING A  
IMMERSION-COAGULATION METHOD  
AND THE PRODUCT THEREOF

*Application*  
Serial No. 10/567,413

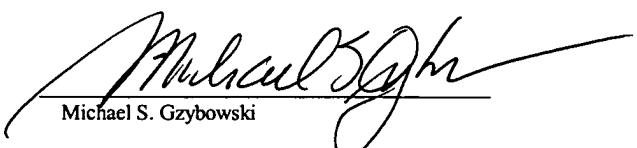
*Filed:* February 3, 2006

*International*  
Application No PCT/CN2004/00899

} Certificate Under 37 CFR 1.8(a)

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deposited with the United States Postal Service as first  
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VA 22313-1450.

} on February 12, 2008

  
Michael S. Gzybowski

RESPONSE TO NOTIFICATION OF MISSING REQUIREMENTS UNDER 35 U.S.C. 371 IN  
THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)

Mail Stop PCT  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

In response to the Notification of Missing Requirements Under 35 U.S.C. 371 in the United States Designated/Elected Office (DO/EO/US) mailed December 18, 2007 applicants are submitting the following:

In the Notification of Missing Requirements Under 35 U.S.C. 371 in the United States Designated/Elected Office (DO/EO/US) it is indicated that Xiaomai Wang was not listed on the published application as an inventor.

Attached is a copy of the Bibliographic Data on file with the International Bureau.

As noted on the attached, Xiaomai Wang is indeed listed as an inventor.

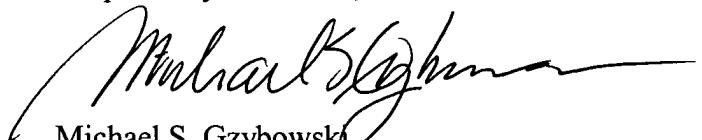
Accordingly, the undersigned request for applicants' declaration filed February 3, 2006 be entered and the application be granted a Filing or 35 USC 371 Date of February 3, 2006.

It is noted that the undersigned called Ms. Paulette Kidwell to request advise on how to respond to the Notification of Missing Requirements and is submitting the Bibliographic Data on file with the International Bureau as instructed.

A copy of the Notification of Missing Requirements Under 35 U.S.C. 371 in the United States Designated/Elected Office (DO/EO/US) is included in this response.

It is believed that the above-identified application is complete and may be processed for examination.

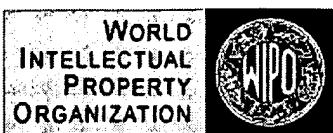
Respectfully submitted,



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195821



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Search result: 1 of 1

**(WO/2005/014151) THE PREPARATION METHOD OF EXO-PRESSURE TYPE POLY(VINYLDENE FLUORIDE) HOLLOW FIBER MEMBRANE SPINNED UTILIZING A IMMERSION-COAGULATION METHOD AND THE PRODUCT THEREOF**

Biblio.	Data	Description	Claims	National Phase	Notices	Documents
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**Latest bibliographic data on file with the International Bureau**

**Publication Number:** WO/2005/014151    **International Application No.:** PCT/CN2004/000899  
**Publication Date:** 17.02.2005    **International Filing Date:** 05.08.2004  
**Chapter 2 Demand Filed:** 17.01.2005

**Int. Class.:** B01D 71/34 (2006.01)

**Applicants:** ZHEJIANG OMEX ENVIRONMENTAL ENGINEERING LTD. [CN/CN]; 688 Chuangye Rd., Huzhou, Zhejiang 313000 (CN) (*All Except US*).  
LI, Xiang [CN/CN]; 688 Chuangye Rd, Huzhou, Zhejiang 313000 (CN) (*US Only*).  
WANG, Xiaomai [CN/CN]; No. 688 Chuangye Rd., Huzhou, Zhejiang 313000 (CN) (*US Only*).

**Inventors:** LI, Xiang [CN/CN]; 688 Chuangye Rd, Huzhou, Zhejiang 313000 (CN).  
WANG, Xiaomai [CN/CN]; No. 688 Chuangye Rd., Huzhou, Zhejiang 313000 (CN).

**Agent:** HANGZHOU HANGCHENG PATENT ATTORNEYS OFFICE CO., LTD; Rm 1802, No. 887, Jiang Cheng Rd., Hangzhou, Zhejiang 310009 (CN).

**Priority Data:** 03142158.X 06.08.2003 CN

**Title:** THE PREPARATION METHOD OF EXO-PRESSURE TYPE POLY(VINYLDENE FLUORIDE) HOLLOW FIBER MEMBRANE SPINNED UTILIZING A IMMERSION-COAGULATION METHOD AND THE PRODUCT THEREOF

**Abstract:** The invention relates to a preparation method of exo-pressure type poly(vinylidene fluoride) hollow fiber membrane spinned utilizing an immersion-coagulation method and the product thereof. The invention is performed mainly through the following steps: dissolving and stirring at a certain temperature to obtain a membrane forming solution; by means of a double-tube orifice, spinning the membrane forming solution together with a composite supporting solution which is in the inner tube of the orifice; after a rapid evaporation, performing the two-stage phase-separating coagulations; after a potch, hydrophilizing the resulted phase inversion membrane; thus, obtaining integrally and continuously the exo-pressure type hollow fiber membrane having double barrier layers and a completely spongy supporting layer. Therefore, the invention is provided with a lot of characteristics, such as the formulation of the membrane forming solution being reasonable, the evaporation and immersion spinning method, the two-stage phase-separation coagulations, and the hydrophilization treatment, as well as the technique for forming membrane integrally and continuously being simple and easy without high restricts to device, the technique process being controlled easily, etc. And the membrane is provided with high compression strength and large water permeation flux, and its property is deteriorated very slowly, and cut-off deposits are difficult to formed on the membrane surface.

**Designated States:** AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, African Regional Intellectual Property Org. (ARIPO) (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW)  
Eurasian Patent Organization (EAPO) (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM)  
European Patent Office (EPO) (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR)  
African Intellectual Property Organization (OAPI) (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

**Publication Language:** Chinese (ZH)

**Filing Language:** Chinese (ZH)

PCT



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[www.uspto.gov](http://www.uspto.gov)

U.S. APPLICATION NUMBER NO.	FIRST NAMED APPLICANT	ATTY. DOCKET NO.
10/567,413	Xiang Li	1336970022
35684 BUTZEL LONG 350 SOUTH MAIN STREET SUITE 300 ANN ARBOR, MI 48104	INTERNATIONAL APPLICATION NO. PCT/CN04/00899	
	LA. FILING DATE	PRIORITY DATE
	08/05/2004	08/06/2003

**CONFIRMATION NO. 5182**  
**371 FORMALITIES LETTER**



OC000000027316376

Date Mailed: 12/18/2007

**NOTIFICATION OF MISSING REQUIREMENTS UNDER 35 U.S.C. 371  
IN THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)**

The following items have been submitted by the applicant or the IB to the United States Patent and Trademark Office as a Designated Office (37 CFR 1.494):

- Indication of Small Entity Status
- Priority Document
- Copy of the International Application filed on 02/03/2006
- Copy of the International Search Report filed on 02/03/2006
- Preliminary Amendments filed on 02/03/2006
- Information Disclosure Statements filed on 02/03/2006
- Oath or Declaration filed on 02/03/2006
- U.S. Basic National Fees filed on 02/03/2006
- Substitute Specification filed on 02/03/2006
- Non-English Language Application filed on 02/03/2006
- Specification filed on 02/03/2006
- Claims filed on 02/03/2006
- Abstracts filed on 02/03/2006
- Drawings filed on 02/03/2006

**RECEIVED**  
**BUTZEL LONG**

DEC 18 2007

RESPONSE DUE:  
*all 8 pages*  
DOCKET 1 *[Signature]* DOCKET 2 \_\_\_\_\_

The following items **MUST** be furnished within the period set forth below in order to complete the requirements for acceptance under 35 U.S.C. 371:

- Oath or declaration of the inventors, in compliance with 37 CFR 1.497(a) and (b), identifying the application by the International application number and international filing date. The current oath or declaration does not comply with 37 CFR 1.497(a) and (b) in that it:
  - inventor Xiaomai Wang is not listed on the published application

**ALL OF THE ITEMS SET FORTH ABOVE MUST BE SUBMITTED WITHIN TWO (2) MONTHS FROM THE DATE OF THIS NOTICE OR BY 32 MONTHS FROM THE PRIORITY DATE FOR THE APPLICATION, WHICHEVER IS LATER. FAILURE TO PROPERLY RESPOND WILL RESULT IN ABANDONMENT.**

The time period set above may be extended by filing a petition and fee for extension of time under the provisions of 37 CFR 1.136(a).

Applicant is reminded that any communications to the United States Patent and Trademark Office must be mailed to the address given in the heading and include the U.S. application no. shown above (37 CFR 1.5)

Registered users of EFS-Web may alternatively submit their reply to this notice via EFS-Web.  
<https://sportal.uspto.gov/authenticate/AuthenticateUserLocalEPF.html>

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**If you are not using EFS-Web to submit your reply, you must include a copy of this notice.**

PAULETTE R KIDWELL

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